

Bachelor of Science (B.Sc.) (Part - I) Second Semester Old
2SZoo-T1 - Zoology Paper-I (Life and Diversity of Animals Nonchordate)
(Arthropoda To Protochordata)

P. Pages : 1

Time : Three Hours



GUG/W/18/1252

Max. Marks : 50

- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw well labelled diagram wherever necessary.

1. Write an essay on bioluminescence in invertebrates. **10**
OR
a) Describe in brief alimentary canal of Pila.
b) Write a note on shell formation in Mollusca.
2. Describe water vascular system in Asterias. **10**
OR
a) Morphological structure of Amphioxus.
b) Ascidian tadpole.
3. Attempt the following. **10**
a) Spermatophore formation. b) Operculum.
c) Regeneration in Asterias. d) Oral hood.
OR
e) Utricular gland. f) Aquatic respiration in Pila.
g) Trunk of Balanoglossus. h) Endostyle of Amphioxus.
4. Attempt the following. **10**
a) Proventriculus. b) Torsion.
c) Tornaria larva. d) Spicules in Herdmania.
OR
e) Anopheles mosquito.
f) Female Reproductive system of Pila.
g) Affinities of Balanoglossus with chordata.
h) Ascidian larva.
5. Write four or five lines on the following **any ten**. **10**
i) Labium ii) Tse-tse fly.
iii) Chemoreceptor iv) Pearl
v) Osphradium. vi) Epitaenia.
vii) Ambulacral spine. viii) Bipinnaria larva.
ix) Glomerulus. x) Synapticula.
xi) Kolikar's pit. xii) Trabeculae.
